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2 AMENDMENTS TO THE SPECIFICATION

3 Please amend the specification of the present application as set forth below. In
4 accordance with the PTO's revised amendment format, changes are shown by
5 strikethrough (for deleted matter) and underlining (for added matter).
6

7 Please replace the paragraph beneath the heading "CROSS REFERENCE TO
8 RELATED APPLICATIONS" (on pages 1 and 2 of the specification) with the following
9 rewritten paragraph:

10
11 -- This application is related to U.S. Patent Application Serial Number ~~xx/xxx,xxx~~
12 09/632,558, filed on even date herewith, entitled "WORKSTATION FOR PROCESSING
13 AND PRODUCING A VIDEO SIGNAL" and bearing attorney docket number
14 1247/A52, naming Jeff S. Ford, Claude Denton, Jeff Belote, and David J. Stradley as
15 inventors, the disclosure of which is incorporated herein, in its entirety, by reference,
16 U.S. Patent Application Serial Number ~~xx/xxx,xxx~~ 09/632,662, filed on even date
17 herewith, entitled "SYSTEM AND METHOD FOR PRE-PROCESSING A VIDEO
18 SIGNAL" and bearing attorney docket number 1247/A53, naming Jeff S. ford and David
19 J. Stradley as inventors, the disclosure of which is incorporated herein, in its entirety, by
20 reference, U.S. Patent Application Serial Number ~~xx/xxx,xxx~~ 09/632,605, filed on even
21 date herewith, entitled "VIDEO CARD WITH INTERCHANGEABLE CONNECTOR
22 MODULE" and bearing attorney docket number 1247/A55, naming Jeff S. Ford and Jeff
23 Belote as inventors, the disclosure of which is incorporated herein, in its entirety, by
24 reference, U.S. Patent Application Serial Number ~~xx/xxx,xxx~~ 09/632,443, filed on even
25 date herewith, entitled "SYSTEM AND METHOD FOR FRAME RATE MATCHING"

1 and bearing attorney docket number 1247/A58, naming Jeff S. Ford as inventor, the
2 disclosure of which is incorporated herein, in its entirety, by reference, and U.S. Patent
3 Application Serial Number ~~xx/xxx,xxx~~ 09/632,451, filed on even date herewith, entitled
4 "SYSTEM AND METHOD FOR PACKING AND UNPACKING VIDEO DATA" and
5 bearing attorney docket number 1247/A59, naming Jeff S. Ford, Arthur McKinney and
6 Craig Jordan as inventors, the disclosure of which is incorporated herein, in its entirety,
7 by reference. --

8
9 Please replace the paragraph beginning on page 4, lines 11, with the following
10 rewritten paragraph:

11
12 -- ~~Figures 7a through 7g show~~ Figure 7 shows an exemplary video graphics
13 workstation for carrying out various exemplary video graphics applications ~~carried out on~~
14 ~~an exemplary video graphics workstation.~~ --

15
16 Please replace the paragraph beginning on page 8, line 16, with the following
17 rewritten paragraph:

18
19 -- The common video data format may be an organized bit stream. As noted
20 above, a frame is a single complete image. An image, in turn, is composed of a raster of
21 picture elements, referred to as pixels. A pixel is represented by some number of bits
22 stored, for example, in memory. Pixels are the smallest "units" on a screen that can be
23 given a color (represented with color data) and an opacity (represented with alpha data).
24 Thus, an organized bit stream may include color data, alpha data, or color data and alpha
25 data. For example, a bit stream with color data may include 20-bits for color data. In

1 contrast, a bit stream for alpha data may include 10-bits for alpha data. Pipeline 354 may
2 pre-process color data separate from alpha data. In this embodiment, a color data bit
3 stream may be forwarded on a an output different from the output used to forward alpha
4 data. --

5
6 Please replace the paragraphs that are presented on page 13, line 13 to page 15,
7 line 30, with the following rewritten paragraphs:

8
9 -- In turn, the separation of video output module 650 from video processing
10 module 600 allows for the configuration of various video output modules, each
11 configured to process and produce different video signal formats. Because the "output"
12 functions of video output system 140 have been separated from the "processing"
13 functions of video output system 140, video output module 650 may be "exchanged"
14 without the need to replace video processing module 600. Thus, when a user wants to
15 output, for example, a serial digital component video signal instead of an analog
16 composite video signal, the user "exchanges" the video output module configured for the
17 analog composite video signal with a video output module configured for the serial
18 digital component video signal. In turn, processor 354 654 (on the "new" video output
19 module) signals video processing module 600 of the new configuration.

20 As an interchangeable connector module, video output module 650 may be
21 mounted on video processing module 600, a processing module, in the manner shown in
22 Figures 4a and 4b.

23 **D. Exemplary Video Graphics Applications**

24 ~~Figures 7a through 7g show~~ Figure 7 shows an exemplary video graphics
25 workstation implementing one embodiment of the invention for carrying out various

1 exemplary video graphics applications ~~carried out on an exemplary video graphics~~
2 ~~workstation implementing one embodiment of the invention.~~ In this embodiment, video
3 input system 730 includes two pipelines, pipeline 732 and pipeline 734. In addition,
4 video output system 750 forwards a formatted video signal to a video tape recorder for
5 recordation.

6 In ~~Figure 7a~~ one application, video graphics workstation 700 captures a live video
7 signal. First, video graphics workstation 700 receives the live video signal. Next, the
8 received video signal is pre-processed in pipeline 732 of video input system 730. Then,
9 the pre-processed video signal is forwarded, via the 64-bit PCI bus, to storage medium
10 720.

11 In ~~Figure 7b~~ another application, video graphics workstation 700 captures and
12 displays a live video signal. First, video graphics workstation 700 receives the live video
13 signal. Next, the received video signal is pre-processed in both pipeline 732 and pipeline
14 734 of video input system 730. Then, the pre-processed video signal from pipeline 732 is
15 forwarded, via the 64-bit PCI bus, to storage medium 720. In the interim, the pre-
16 processed video signal from pipeline 734 is forwarded, via local bus 782, to video
17 graphics processor 740 for display on computer monitor 760. The pre-processed video
18 signal from pipeline 734 may also be forwarded to video graphic processor 740 via the
19 64-bit PCI bus and the AGP. In alternate ~~embodiment~~ embodiments, the pre-processed
20 video signal from pipeline 734 may be forwarded, via the 64-bit bus and the 32-bit bus, to
21 video output system 750 for recordation on video tape recorder 770.

22 In ~~Figure 7e~~ another application, video graphics workstation 700 plays back a
23 stored video signal. First, video graphics workstation 700 forwards a stored video signal,
24 via the 64-bit PCI bus to video input system 730. Next, the stored video signal is pre-
25 processed in pipeline 732. Then, the pre-processed video signal is forwarded, via local

1 bus 782, to video graphics processor 740 for display on computer monitor 760. In an
2 alternate embodiment, the pre-processed video signal may also be forwarded, via local
3 bus 784, to video output system 750 for recordation on video tape recorder 770.

4 In ~~Figure 7d~~ another application, video graphics workstation 700 processes a
5 stored video signal, for example, performs a two-dimensional or three-dimensional effect
6 on the stored video signal, and displays the processed video signal. First, video graphics
7 workstation 700 forwards a stored video signal, via the 64-bit PCI bus, to video input
8 system 730. Next, the stored video signal is pre-processed in pipeline 732. Then, the
9 pre-processed video signal is forwarded, via local bus 782, to video graphics processor
10 740 for "effects" processing and display on a computer monitor 760. In an alternate
11 embodiment, the processed video signal may also be forwarded, via local bus 784, to
12 video output system 750 for recordation on video tape recorder 770.

13 In ~~Figure 7e~~ another application, video graphics workstation 700 pre-processes a
14 stored video signal and saves the pre-processed video signal. First, video graphics
15 workstation 700 forwards a stored video signal, via the 64-bit PCI bus, to video input
16 system 730. Next, the stored video signal is pre-processed in pipeline 732. Then, the
17 pre-processed video signal is forwarded, via the 64-bit PCI bus, to storage medium 720.
18 In alternate embodiments, the pre-processed video signal may be forwarded, via the 64-
19 bit PCI bus, to central processing unit 715 or to memory 710.

20 In ~~Figure 7f~~ another application, video graphics workstation 700 processes a
21 stored video signal and saves the processed video signal. First, video graphics
22 workstation 700 forwards a stored video signal, via the 64-bit PCI bus, to video input
23 system 730. Next, the stored video signal is pre-processed in pipeline 732. Then, the
24 pre-processed video signal is forwarded, via local bus 782, to video graphics processor
25 740 for "effects" processing. Last, the processed video signal is forwarded, via local bus

1 782, to video input system 730. Video input system 730 may pre-process the processed
2 video signal, for example, to convert the processed signal to a format better suited for
3 saving, or forward the processed signal, via the 64-bit PCI bus, to storage medium 720.

4 In ~~Figure 7g~~ another application, video graphics workstation 700 combines a live
5 video signal, a stored video signal, and graphics information and records the combined
6 video signal. First, video graphics workstation 700 receives a live video signal. Next,
7 the received video signal is pre-processed in pipeline 732 of video input system 730. In
8 the interim, video graphics workstation 700 forwards a stored video signal to video input
9 system 730. Next, the stored video signal is pre-processed in pipeline 734. Then,
10 graphics information (via the AGP), the pre-processed video signal from pipeline 732
11 (via local bus 782), and the pre-processed video signal from pipeline 734 (via local bus
12 782) are forwarded to video graphics processor 740 for "effects" processing. Last, the
13 processed video signal is forwarded, via local bus 784, to video output system 750 for
14 recordation on video tape recorder 770. --